



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

**NOTICE OF ALLOWANCE AND ISSUE FEE DUE**

IM71/0807

MICHAEL I WOLFSON  
COWAN LIEBOWITZ & LATMAN, P.C.  
1133 AVENUE OF THE AMERICAS  
NEW YORK NY 10036-6799

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
08/941,605	09/30/97	004	NOLAN, S	1772 07/30/01
First Named Applicant	WOOD,	35 USC 154(b) term ext. = 0 Days.		

TITLE OF INVENTION FLEXIBLE LINING WITH FLEXIBLE COLLAR FOR LINING LATERAL PIPELINES

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEE DUE	DATE DUE
1 ITI-138C	428-036.900	J93	UTILITY	NO	\$1240.00	10/30/01

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

- I. Review the SMALL ENTITY status shown above.  
If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.
- If the SMALL ENTITY is shown as NO:
  - A. Pay FEE DUE shown above, or
  - B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number.  
Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

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Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
08/941,605	09/30/97	WOOD	E ITI-138C

IM71/0730  
MICHAEL I WOLFSON  
COWAN LIEBOWITZ & LATMAN, P.C.  
1133 AVENUE OF THE AMERICAS  
NEW YORK NY 10036-6799

EXAMINER  
NOLAN, S

ART UNIT	PAPER NUMBER
1772	28/1

DATE MAILED: 7/30/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Notice of Allowability

Application No.  
08/941,605

Applicant(s)

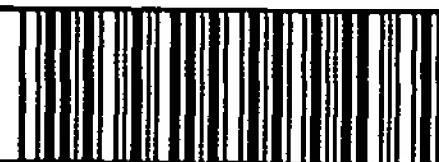
Wood

Examiner

Sandra Nolan

Art Unit

1772



**—The MAILING DATE of this communication appears on the cover sheet with the correspondence address—**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to dated May 10, 2001
2. ☒ The allowed claim(s) is/are 9 and 13-15
3. ☐ The drawings filed on \_\_\_\_\_ are acceptable as formal drawings.
4. ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
  - a) ☐ All    b) ☒ Some\*    c) ☒ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \*Certified copies not received: \_\_\_\_\_
5. ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE FOR SUBMITTING NEW FORMAL DRAWINGS, OR A SUBSTITUTE OATH OR DECLARATION.** This three-month period for complying with the REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL is extendable under 37 CFR 1.136(a).

6. ☐ Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.
7. ☐ Applicant MUST submit NEW FORMAL DRAWINGS
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment/Comment or in the Office action of Paper No. \_\_\_\_\_

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.**

8. ☐ Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any reply to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

## Attachment(s)

- |  |  |
|--|--|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 4 <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>27</u> |
| 5 <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449), Paper No(s). _____          | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                     |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance    |
| 9 <input type="checkbox"/> Other   |  |

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**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Michael Wolfson on July 27, 2001.

2. The claims have been amended as follows:

In the Claims

Claim 9 (renumbered as claim 1 for issue) has been amended to read:

~~9~~ (amended). A liner of resin absorbent material for lining a lateral passageway connected to a main passageway, comprising:

a lining tube of resin absorbable flexible material formed with a lumen conforming to the dimensions of the lateral having a collar of resin absorbable flexible material adapted to conform to the interior surface of the main passageway around the lateral aperture for forming an improved seal at the junction between the main pipeline and the lateral, wherein the tube and the collar are both resin impregnable.--

New claim 15 (renumbered as claim 4 for issue) has been added and reads as follows:

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X

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~~15~~ 4. A liner of resin absorbent material for lining a lateral passageway connected to a main passageway, comprising:

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X a lining tube of resin absorbable flexible material formed with a lumen conforming to the dimensions of the lateral having a collar consisting essentially of a resin absorbable flexible material adapted to conform to the interior surface of the main passageway around the lateral aperture for forming an improved seal at the junction between the main pipeline and the lateral, wherein the tube and the collar are both resin impregnable.--

Remarks

Claim 9 has been amended to make it clear that the tube and the collar are composed of resin impregnable material. New claim 15 is similar to claim 9, but states that the collar portion consists essentially of the resin absorbable material.

*Reasons for Allowance*

2. The following is an examiner's statement of reasons for allowance:

The closest prior art is US 5,108,533 to Long et al, which shows a liner for servicing sewer pipes, which liner is made of absorbent material, such as felt (col. 5, line 25). However, the end of the Long et al tube holds a retainer 46 (col. 6, lines 48-54), which retainer is made of high density plastic (col. 7, line 19) or closed cell foam (col. 7, lines 24+) and is, therefore, not absorbent or resin impregnable. There is no teaching in Long et al that the retainer portion can be impregnated with resin and cured.

The liners recited in Applicant's claims, as amended, distinguish over the Long et al liners because the absorbent and impregnable nature of the liners and the fact that, as the resin absorbed

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therein cures, the collar conforms to the shape of the passageway into which it has been placed. The Long et al retainer is not design to absorb resin, so that it does not cure in a manner than makes it conform to the shape of the passageway into which it was placed.

The prior art of record does not teach or suggest a pipe liner comprising an absorbent tube for lining passageways, which liner has a resin absorbent collar on one end thereof.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### *Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sandra M. Nolan, whose telephone number is (703) 308-9545. The examiner can normally be reached on Monday through Thursday from 7:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (703) 308-4251. The fax phone number for the art unit is (703) 305-5408. The telephone number for the receptionist is (703) 308-0661.



SMN/smn  
July 27, 2001  
08941605.allow

  
HAROLD PYON  
SUPERVISORY PATENT EXAMINER

1772

7/30/01